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<110> Burkly, Linda C.											
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US 09/234,290 1999-01-20											
US 08/447,118 1993-05-22											
US 08/029,330 1993-02-09											
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gtc aaa ctg cag cat gtg gca gag ctt gtg aag cca ggg gcc tca 48 Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala Ser 1 10 15											
gtc aag ttg tcc tgc aca gct tct ggc ttc aac att aaa gac acc tat Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr 20 25 30											
atg cac tgg gtg aag cag agg cct gaa cag ggc ctg gag tgg att gga 144 Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile Gly 35 40 45											
agg att gat cct gcg agt ggc gat act aaa tat gac ccg aag ttc cag 192											

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Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp Pro Lys Phe Gln
                         55
     50
                                                                       240
gtc aag gcc act att aca gcg gac acg tcc tcc aac aca gcc tgg ctg
Val Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Trp Leu
65
                     70
                                                                       288
cag ctc agc agc ctg aca tct gag gac act gcc gtc tac tac tgt gca
Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala
                 85
gac gga atg tgg gta tca acg gga tat gct ctg gac ttc tgg ggc caa
                                                                       336
Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp Phe Trp Gly Gln
            100
ggg acc acg gtc acc gtc tcc tca
                                                                       360
Gly Thr Thr Val Thr Val Ser Ser
        115
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Val Lys Leu Gln Gln Ser Gly Ala Glu Leu Val Lys Pro Gly Ala Ser
                                     10
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Val Lys Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Thr Tyr
                                 25
Met His Trp Val Lys Gln Arg Pro Glu Gln Gly Leu Glu Trp Ile Gly
Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp Pro Lys Phe Gln
Val Lys Ala Thr Ile Thr Ala Asp Thr Ser Ser Asn Thr Ala Trp Leu
                    70
                                         75
Gln Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala
                                     90
Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp Phe Trp Gly Gln
                                 105
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Gly Thr Thr Val Thr Val Ser Ser
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	agg Arg															96
	gct Ala															144
	tat Tyr 50															192
	gga Gly			_	-											240
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	ttc Phe															318
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Asp	Arg	Val	Thr 20	Ile	Thr	Cys	Lys	Ala 25	Ser	Gln	Ser	Val	Thr 30	Asn	Asp	
Val	Ala	Trp 35		Gln	Gln	Lys	Pro 40		Gln	Ser	Pro	Lys 45		Leu	Ile	
Tyr	Tyr 50		Ser	Asn	Arg	Tyr 55		Gly	Val	Pro	Asp 60		Phe	Thr	Gly	
Ser 65	Gly	Tyr	Gly	Thr	Asp 70		Thr	Phe	Thr	Ile 75		Thr	Val	Gln	Ala 80	
	Asp	Leu	Ala			Phe	Cys	Gln	Gln 90		Tyr	Ser	Ser	Pro 95		
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                -15
                                     -10
gcc cac tcc cag gtc caa ctg cag gag agc ggt cca ggt ctt gtg aga
                                                                       96
Ala His Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg
                                                                      144
cct agc cag acc ctg agc ctg acc tgc acc gcg tct ggc ttc aac att
Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Ala Ser Gly Phe Asn Ile
                         20
                                                                      192
aaa gac acc tat atg cac tgg gtg aga cag cca cct gga cga ggt ctt
Lys Asp Thr Tyr Met His Trp Val Arg Gln Pro Pro Gly Arg Gly Leu
30
                     35
                                                                      240
gag tgg att gga agg att gat cct gcg agt ggc gat act aaa tat gac
Glu Trp Ile Gly Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp
                 50
ccg aag ttc cag gtc aga gtg aca atg ctg gta gac acc agc agc aac
                                                                       288
Pro Lys Phe Gln Val Arg Val Thr Met Leu Val Asp Thr Ser Ser Asn
             65
                                 70
                                                                       336
cag ttc agc ctg aga ctc agc agc gtg aca gcc gcc gac acc gcg gtc
Gln Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val
         80
                                                                       384
tat tat tgt gca gac gga atg tgg gta tca acg gga tat gct ctg gac
Tyr Tyr Cys Ala Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp
     95
                                                                      429
ttc tgg ggc caa ggg acc acg gtc acc gtc tcc tca ggt gag tcc
Phe Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Glu Ser
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                    115
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                                    -10
Ala His Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg
Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Ala Ser Gly Phe Asn Ile
                        20
Lys Asp Thr Tyr Met His Trp Val Arg Gln Pro Pro Gly Arg Gly Leu
Glu Trp Ile Gly Arg Ile Asp Pro Ala Ser Gly Asp Thr Lys Tyr Asp
                                    55
Pro Lys Phe Gln Val Arg Val Thr Met Leu Val Asp Thr Ser Ser Asn
Gln Phe Ser Leu Arg Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val
                            8.5
Tyr Tyr Cys Ala Asp Gly Met Trp Val Ser Thr Gly Tyr Ala Leu Asp
                        100
Phe Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Glu Ser
110
                    115
                                        120
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<222> (1)...(57)
<221> mat peptide
<222> (58)...(384)
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                                                                       48
Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
                                                                       96
qtc cac tcc agc atc gtg atg acc cag agc cca agc agc ctg agc gcc
Val His Ser Ser Ile Val Met Thr Gln Ser Pro Ser Ser Leu Ser Ala
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age gtg ggt gae aga gtg ace ate ace tgt aag gee agt cag agt gtg
                                                                      144
Ser Val Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val
                                                                      192
act aat gat gta gct tgg tac cag cag aag cca ggt aag gct cca aag
Thr Asn Asp Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
ctg ctg atc tac tat gca tcc aat cgc tac act ggt gtg cca gat aga
                                                                      240
Leu Leu Ile Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg
ttc agc ggt agc ggt tat ggt acc gac ttc acc ttc acc atc agc agc
                                                                      288
Phe Ser Gly Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser
ctc cag cca gag gac atc gcc acc tac tac tgc cag cag gat tat agc
                                                                      336
Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Asp Tyr Ser
         80
tet eeg tae aeg tte gge eaa ggg ace aag gtg gaa ate aaa egt aag
                                                                      384
Ser Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Lys
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Ser Val Gly Asp Arg Val Thr Ile Thr Cys Lys Ala Ser Gln Ser Val
Thr Asn Asp Val Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
                    35
                                         40
                                                             45
Leu Leu Ile Tyr Tyr Ala Ser Asn Arg Tyr Thr Gly Val Pro Asp Arg
                50
                                    55
Phe Ser Gly Ser Gly Tyr Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser
Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Asp Tyr Ser
Ser Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Lys
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<213> Homo sapiens

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agt cca ctg aat ggg aag gtg acg aat gag ggg acc aca tct acg ctg

Ser Pro Leu Asn Gly Lys Val Thr Asn Glu Gly Thr Thr Ser Thr Leu

240

50

65					70					75					80		
														tgc Cys 95		2	288
														gag Glu		3	336
														ctg Leu		3	384
														tac Tyr		4	32
	_		-			_		_			_			atg Met	_	4	180
														acc Thr 175		5	28
														aaa Lys		5	576
	-	_	_	-					-	-	-	_		gtg Val		6	524
				-	-		-	-		_				cac His		6	572
	_							_	_		7.7	_		gtc Val		7	20
														acc Thr 255		7	'68
														gag Glu		8	316
-					-	-							_	aag Lys		8	864
														agc Ser		9	12

ctc acc gtc ctg cac cag gac tgg ctg aat ggc aag gag tac aag tgc Leu Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys 305 310 315 320	960											
aag gtc tcc aac aaa gcc ctc cca gcc ccc atc gag aaa acc atc tcc Lys Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser 325 330 335	1008											
aaa gcc aaa ggg cag ccc cga gaa cca cag gtg tac acc ctg ccc cca Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro 340 345 350	1056											
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aaa ggc ttc tat ccc agc gac atc gcc gtg gag tgg gag agc aat ggg Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly 370 375 380	1152											
cag ccg gag aac aac tac aag acc acg cct ccc gtg ctg gac tcc gac Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp 385 390 395 400	1200											
ggc tcc ttc ttc ctc tac agc aag ctc acc gtg gac aag agc agg tgg Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp 405 410 415	1248											
cag cag ggg aac gtc ttc tca tgc tcc gtg atg cat gag gct ctg cac Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His 420 425 430	1296											
aac cac tac acg cag aag agc ctc tcc ctg tct ccg ggt aaa Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys 435 440 445	1338											
tgagtgcgg	1347											
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